

Semiconductor Test Engineer

Full-Time • Bellport, NY

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Company Overview

Chipytics streamlines access to mission-critical electronic components through a scalable testing platform and growing network of supply chain partners. Mature nodes power nearly every electrical system, yet dependence on overseas manufacturing and complex distribution channels introduce significant risk to critical supply chains and national security. The Verified by Chipytics program will mitigate these risks by delivering secure sourcing, procurement, and testing for high-reliability electronics.

Job Description

We're hiring a **Semiconductor Test Engineer** to lead the execution of electronic component testing flowing through the Verified by Chipytics program. Reporting to the VP of Operations, you'll translate requirements into executable test plans, lead hands-on evaluation across AS6171 methods, train and mentor lab technicians, and help stand up our component testing lab infrastructure and workflows. You'll work closely with Product and Engineering to define requirements and deploy Chipytics automation and inspection technology in the field.

Responsibilities

1. Point-of-contact for planning and executing electronic component testing with guidance from the VP of Operations for all parts that flow through the Verified by Chipytics program
2. Operate off-the-shelf equipment to perform AS6171 testing including general & detailed external visual inspection, X-ray, XRF, and electrical testing (LCR, DC, JTAG boundary-scan) out of our Bellport, NY lab
3. Perform chemical testing and analysis on semiconductor components including decapsulation and remarking out of Long Island High Tech Incubator (LIHTI), our offsite wet lab at Stony Brook University
4. Integrate Chipytics automation and inspection technology including the Micro-Inspection Platform (MIP) into testing and analysis workflows
5. Help build and run the lab: specify and commission equipment, establish benches/ESD controls, write work instructions and calibration/maintenance plans; contribute to facility layout and safe operations
6. Train new test engineers and lab technicians, providing guidance on equipment setup, testing technique, and safe material handling and storage
7. Define requirements for test fixtures and more advanced electrical testing to be developed and/or performed by Chipytics Engineering team
8. Coordinate outsourced testing for more specialized test cases (e.g. RF antenna testing)

9. Author test plans and reports: convert customer/industry requirements into clear procedures; produce defensible, standards-compliant reports with images, data, and pass/fail rationale.
10. Collaborate with VP of Operations to make authenticity and quality assessments on electronics components
11. Support technical reviews with suppliers and end-customers
12. Drive process control: establish checklists, acceptance criteria, and control charts; partner with VP of Operations to align with ISO 9001 and AS6171 quality management practices.
13. Manage lab scheduling, prioritize urgent lots, and ensure spares/consumables are stocked; track KPIs (turn-time, first-pass yield, rework rate).
14. Contribute to defining requirements and capabilities of the next generation of Chiplytics microelectronics inspection technology

Requirements

- Bachelor's or Master's degree in Electrical, Chemical, Computer, Manufacturing, or related Engineering field
- Experience working in a lab environment, writing test plans, and developing process flows; experience in a wet lab is a plus
- Experience handling and testing electronic components and developing electronic circuits and test fixtures
- Ability to define and meticulously follow test requirements for a wide range of microelectronics components
- Well-versed at diagnosing, debugging, and maintaining lab equipment
- Familiarity writing code to perform testing and analysis (e.g. Python, Jupyter Notebook)
- Ability to work independently in a fast-paced startup; bias for action and ownership
- Capacity to work 40 hours per week in-person at our Bellport, NY lab and offsite as appropriate at LIHTI, our wet lab located at Stony Brook University.
- Must be a U.S. person (U.S. citizen or lawful permanent resident) due to export control regulations
- Eligibility for U.S. Government security clearance is a plus

How to Apply

Send an email to join@chiplytics.com with your resume and short paragraph about yourself and why you're interested in applying.